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Research News

January, 1980
VOLUME XII No. 7

Office of Research Services
Wright State University
Dayton, Ohio 45435

ANNOUNCEMENTS OF GENERAL INTEREST

Research Council Announces Policy for Research Funds

The Research Council announces their policy for disbursement of research incentive and research development funds for 1980. Policy guidelines are available from University Research Services. A memorandum for request of funds must be received by the Chairer of the Research Council no later than February 15, 1980.

Directory of Faculty Research Interests

The Office of University Research Services will provide on request the following publication "Directory of Faculty Research Interests." This Directory was first made available in July of 1979. It has been revised and updated to include newly arrived faculty and additional information as of November 16, 1979. This Directory lists faculty alphabetically within departments with a brief description of each faculty person's research interests. Copies will be available on a first come - first serve basis until our supply is exhausted. Please call extension 2425 or use the convenient order form on the last page.

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THE UNIVERSITY RESEARCH SERVICES STAFF

WISHES ALL OF OUR READERS

A HAPPY HOLIDAY SEASON!

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EXTRAMURAL FUNDING OPPORTUNITIES

For further information concerning these listed opportunities or information in general concerning grants and contracts, call the Office of University Research Services, Room 222 Allyn Hall, Phone 2425/6, or use the order form on the last page.

When requesting information on listed opportunities, refer to the number on the left of each listing.

- 7-1 NATIONAL SCIENCE FOUNDATION - DEADLINE - PROPOSALS MUST BE RECEIVED IN THE FOUNDATION BY 5:00 pm., February 29, 1980.

Instructional Scientific Equipment for Undergraduate Science Education

The National Science Foundation provides matching support for purchase of laboratory and instructional equipment to implement new or improved undergraduate programs in the sciences. The specific objectives are: to encourage and support the introduction of modern equipment; to improve the "hands-on" experiences of undergraduate students in science and engineering laboratory and field work; to encourage and support the incorporation of current educational technology into science instruction.

Wright State University has a maximum permissible allocation of four (4) ISEP proposals.

- 7-2 NATIONAL SCIENCE FOUNDATION - DEADLINE January 28, 1980

Ecology

- 7-3 NATIONAL SCIENCE FOUNDATION - DEADLINE January 28, 1980

Ecosystem Studies

- 7-4 NATIONAL SCIENCE FOUNDATION - DEADLINE January 28, 1980

Population Biology and Physiological Ecology

- 7-5 NATIONAL SCIENCE FOUNDATION - DEADLINE January 28, 1980

Biological Research Resources

- 7-6 NATIONAL SCIENCE FOUNDATION - DEADLINE January 28, 1980

Systematic Biology

- 7-7 NATIONAL SCIENCE FOUNDATION - DEADLINE February 1, 1980

Public Understanding of Science

- 7-8 NATIONAL SCIENCE FOUNDATION - DEADLINE February 1, 1980

Specialized Engineering Research Equipment Grants

- 7-9 NATIONAL SCIENCE FOUNDATION - DEADLINE February 1, 1980
Biochemistry
- 7-10 NATIONAL SCIENCE FOUNDATION - DEADLINE February 1, 1980
Biophysics
- 7-11 NATIONAL SCIENCE FOUNDATION - DEADLINE February 1, 1980
Cell Biology
- 7-12 NATIONAL SCIENCE FOUNDATION - DEADLINE February 1, 1980
Developmental Biology
- 7-13 NATIONAL SCIENCE FOUNDATION - DEADLINE February 1, 1980
Genetic Biology
- 7-14 NATIONAL SCIENCE FOUNDATION - DEADLINE February 1, 1980
Regulatory Biology
- 7-15 NATIONAL SCIENCE FOUNDATION - DEADLINE February 1, 1980
Analysis of Science Resources
- 7-16 NATIONAL SCIENCE FOUNDATION - DEADLINE - NONE
Development in Science Education
- 7-17 NATIONAL SCIENCE FOUNDATION - DEADLINE - NONE
Information Science and Technology
- 7-18 NATIONAL SCIENCE FOUNDATION - DEADLINE - NONE
Research in Science Education
- 7-19 NATIONAL SCIENCE FOUNDATION - NATIONAL INSTITUTE OF EDUCATION
DEADLINE February 14, 1980

The Improvement of Mathematics Education using Information Technology

Primary emphasis in the program is on the development of prototypes of (1) educationally relevant software, (2) instructional courseware, and (3) methods for assessing students' progress. These should respond to pedagogical needs and opportunities, and be developed with the involvement of students and teachers and appropriately modified on the basis of experience.

7-20 SMITHSONIAN INSTITUTION - DEADLINE January 15, 1980

Pre- and Post-Doctoral Fellowships

Fellowships are available at the Smithsonian for work on a special project of their own design, aided by a Smithsonian advisor and the vast array of Smithsonian archives. Fellowships are available in the fields of American history and material culture, history of art, history of science and technology, anthropology, and the biological and earth sciences. Annual stipends are \$7,000 for pre-doctoral fellows and \$12,000 for postdoctoral fellows, plus travel and research-related expenses are also allowed.

7-21 NATIONAL RESEARCH COUNCIL - (FORD FOUNDATION) DEADLINE February 1, 1980

Minority Fellowships

The National Research Council plans to award approximately 25 postdoctoral fellowships for minorities in a new program designed to provide opportunities for continued education and experience in research to Black Americans, Mexican Americans/Chicanos, Puerto Ricans, and Native Americans. Fellowship recipients will be selected from among scientists, engineers, and humanities scholars who show greatest promise of future achievement in academic research and scholarship in higher education.

Awards will be made in the areas of behavioral and social sciences, humanities, engineering sciences, mathematics, physical sciences, life sciences, and for interdisciplinary programs of study.

7-22 TINKER FOUNDATION - DEADLINE January 15, 1980

Social Science Fellowships

Tinker postdoctoral fellowships support Ibero-American studies; fellows can develop independent, interdisciplinary research in the social sciences, combining their area of specialization with another field. The fellowships are partially designed to broaden horizons of fellows to prepare them as future leaders in both the private and public sectors.

7-23 PHARMACEUTICAL MANUFACTURERS ASSOCIATION FOUNDATION - DEADLINE January 15, 1980

Medical Student Pharmacology Fellowships

Medical student research fellowships in pharmacology - clinical pharmacology - provides support for one year of full-time research within a clinical pharmacology or pharmacology unit. Applicants must have completed at least one year in a U.S. medical school.

7-24 NATIONAL INSTITUTE ON DRUG ABUSE and NATIONAL INSTITUTE ON ALCOHOL ABUSE AND ALCOHOLISM DEADLINE March 1, 1980

Research on Substance Abuse

Areas of research: (1) etiology (2) epidemiology (3) treatment (4) prevention (5) adverse effects and, (6) basic research and methodological developments

- 7-25 PHARMACEUTICAL MANUFACTURERS ASSOCIATION FOUNDATION - DEADLINE January 15, 1980

Postdoctoral Fellowships Pharmacology-Morphology

Fellowship awards in pharmacology-morphology - postdoctoral awards for a two-year period for interdisciplinary training and research on the actions of drugs through morphologic approaches (cytology, histochemistry, ultra-structure, pathology). The fellowships are directed at programs of drug action specifically related cellular and tissue changes, and to uncover associations between normal and abnormal function in particular tissue and cellular structures.

- 7-26 NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - DEADLINE February 1, 1980

Graduate Student Researchers Program for 1980

This program is designed to significantly increase the number of highly trained scientists and engineers in aeronautics, space science, space applications, and space technology to meet the continuing needs of the national aerospace effort.

Each year NASA will provide an opportunity for about 40 graduate students in aerospace science and technology to conduct their thesis research at a NASA center. Selections will be made on the basis of a proposal by the student's faculty advisor in a research area identified by NASA. Final project assignments will be made after an in-depth discussion of the project with the student, faculty advisor, and NASA center project monitor.

Specific research areas are identified each year by the directors of the various NASA Centers. These areas are selected especially to provide the student opportunities to work on a project of high priority to NASA, to use unique NASA equipment and facilities, and to interact with senior NASA research personnel.

- 7-27 U.S. DEPARTMENT OF TRANSPORTATION - DEADLINE January 15, 1980
for review process.

Faculty Fellow Program

Under this program the faculty's work will be done at a specified DOT facility and not at the university. For the faculty member, the intrinsic value of working at a DOT site will be the ability to work on a problem through the perspective and with the resources of the host organization.

Since the program is intended as an opportunity for leading academicians in transportation to pursue advanced and innovative research in transportation as well as benefit the Department of Transportation in its mission, the choices of research areas are limited to those areas where a direct interaction and contribution is expected.

Faculty may apply at any time; however, the review process will begin January 15, 1980.

7-28 NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES - DEADLINE February 1, 1980

Allergic Diseases Academic Award

This award is intended to provide well-trained young medical scientists of demonstrated superior potential with an opportunity to develop the necessary qualifications for established academic positions in allergic diseases; at the same time it would provide an institution, with a demonstrated need, the academic leadership required to initiate or augment essential investigations relating to allergic diseases.

7-29 NATIONAL HEART, LUNG, AND BLOOD INSTITUTE and NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM AND DIGESTIVE DISEASES - DEADLINE February 15, 1980

Special Emphasis Research Career Award: Diabetes Mellitus - Cardiovascular, Metabolic, and Endocrinologic Aspects

This award is intended to: encourage qualified individuals in the early stages of their postgraduate medical and scientific careers to develop research interests and skills in the metabolic, endocrinologic, and cardiovascular aspects of diabetes mellitus.

7-30 NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES - DEADLINE March 1, 1980

Program Research Interests in Immune Mechanisms and Cutaneous Disorders (Immunodermatology)

This Institute is interested in expanding research activities of the Immunology, Allergic, and Immunologic Diseases Program concerned with immune mechanisms and hypersensitivity reactions in diseases of the skin.

7-31 NATIONAL INSTITUTE ON AGING - DEADLINE (See below)

Social and Behavioral Research on Aging

Research areas emphasize the social, cultural, economic, and psychological factors that affect both the process of growing old and the place of older people in society.

1. Research Project Grant - Deadline March 1, 1980
2. Postdoctoral Fellowship - Deadline February 1, 1980
3. Special Research Award - Deadline March 1, 1980
4. Senior Fellowship - Deadline February 1, 1980
5. Clinical Investigator Award - Deadline February 1, 1980
6. Research Career Development Award - Deadline February 1, 1980
7. Program Project Grant - Deadline February 1, 1980
8. Special Initiative Award - Deadline March 1, 1980
9. Institutional Training Grant - Deadline February 1, 1980

- 7-32 NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES - DEADLINE March 15, 1980
RFA NIH-NIAID-80-2

Characterization of Non-MHC and Tissue- Specific Alloantigens

The objective of this RFA is to encourage the submission of grant applications that have among their goals: (1) the demonstration of non-MHC or tissue-specific alloantigens, (2) the evaluation of the genetic polymorphism of these antigens, and (3) the evaluation of the changes in expression of these antigens in the course of ontogenesis, and in tissue culture.

- 7-33 NURSES' EDUCATIONAL FUNDS, INC. - DEADLINE January 15, 1980

Nursing Sciences

Fellowships and scholarships are available to registered nurses who are pursuing the bachelor's, master's, or doctorate degree in the nursing sciences.

- 7-34 CHILD HEALTH SERVICES - DEADLINE January 18, 1980

Maternal and Child Health and Crippled Childrens Services Grants

The grants are to be used to support such activities as: (1) the relative extent to which the project will contribute to a nationwide distribution of needed services and training with special emphasis on how the applicant will place graduates in state and local health departments and the extent to which the applicant has been successful in recruiting trainees or fellows from minority groups; (2) the relative extent to which the project will provide more effective utilization of personnel currently providing health services to mothers and children; (3) the extent to which the project will assist in the development of new information or innovative methods relating to the provision of maternal and child health and crippled children's services.

- 7-35 U.S. DEPARTMENT OF AGRICULTURE - DEADLINE January 28, 1980

Ethyl Alcohol Conversion

Ethyl alcohol conversion is the specific area of interest. Research on the evaluation, production, handling, treatment, and conversion of biomass resources for manufacture of ethyl alcohol. (Research on other alcohols will be supported under Energy Special Grants Fermentation)

- 7-36 NATIONAL ENVIRONMENTAL HEALTH ASSOCIATION - DEADLINE January 31, 1980

Environmental Health

The Association's undergraduate program offers scholarships to applicants of the sophomore level pursuing careers in environmental health to further the improvement of and guide the nation's education of professional environmentalists.

7-37 U.S. DEPARTMENT OF AGRICULTURE - DEADLINE January 28, 1980

Special Agricultural Energy Development and Use

The overall objective of this research program is to obtain the scientific knowledge and technical information required to reduce the petrochemical energy used in agricultural and forestry production, and other rural activities. Grant awards will be made in four specific areas of inquiry: (1) fermentation (alcohols other than ethanol, and hydrocarbons). Research on hydrolysis, fermentation, anaerobic digestion; extraction, product separation, and purification; and blending, marketing and utilization of the products; (2) combustion and pyrolysis - research on direct burning, extraction of petrochemical substitutes, gasification, pyrolysis, transformation, and use of abundant domestic carbonaceous sources for agriculture; (3) energy conservation and development of solar and wind energy sources - energy conservation in crop and animal production systems. Development of technology to permit economic substitution of energy from solar and wind for crop drying; heating livestock shelters and greenhouses; irrigation pumping; (4) biomass screening and utilization - comparison and choice of species and varieties for energy value. Also on the production, storage and assembly of promising categories of biomass for energy use.

7-38 SIGMA XI- DEADLINE February 1, 1980

Research

To support scientific investigation in any field. Stipend - \$100.00 or less to a maximum of \$1,000

7-39 HEALTH SYSTEMS AGENCY - DEADLINE February 1, 1980

Home Health Services

Grants to support the development and expansion of home health services as defined in Section 1861(m) of the Social Security Act in areas in which such services are not otherwise available. Preference will be given to those projects that will serve catchment areas in which a high percentage of the population is elderly, medically indigent, or both.

7-40 CATHOLIC LIBRARY ASSOCIATION - DEADLINE February 1, 1980

Scholarship Library Sciences

The Reverend Andrew L. Bouwhuts Memorial Scholarship of \$1,500 is awarded to promote advanced study in the field of library sciences with the goal of adding more qualified people to the library profession.

7-41 OFFICE OF EDUCATION - DEADLINE February 14, 1980

Metric Education Program

The purpose of the award is to encourage and support projects that prepare students to use the metric system of measurement (International System of Units (SI)).

7-42 ATOMIC ENERGY COMMISSION - DEADLINE February 15, 1980

Atomic Research

The Associated Western Universities AEC Participation Program offers grants for the purpose of giving educational institutions further scientific and technical information by paying current university salary (or \$1,800 per month, if less) to the participant.

7-43 NATIONAL INSTITUTES OF HEALTH - DEADLINE January 31, 1980

Extramural Associates Program

Nominations and applications for awards under this program seek to promote the entry and participation of minorities and women in health-related research. Under this program, key administrators from schools which contribute significantly to the pool of minorities and women in science will spend six months in residence in Bethesda, where they will work in rotating assignments with senior members of the NIH staff as well as other Federal agencies.

Associates will attend seminars, committee meetings, workshops, and site visits to obtain first-hand information about Federal health-related grant and contract programs. Such information is expected to help the Associates in their professional development as administrators of science, as well as in their role as resource persons with whom faculty and students can consult.

7-44 ARGONNE NATIONAL LABORATORY

Programs for Summer 1980 and for the 1980-81 Academic Year

Faculty Research Participation - for faculty members who wish to participate in Argonne's extensive research and development activities. With few exceptions these appointments are for the summer only.

Thesis Research Opportunities - for graduate students to undertake an entire thesis research project as a Laboratory-Graduate Participant or to perform only a portion of their dissertation research under a Thesis Parts appointment.

Summer Graduate Student Institutes - for recent college graduates and first-year graduate students who wish to gain research experience under the supervision of an Argonne staff member while becoming acquainted with a national laboratory environment and increasing their academic competence through lectures, seminars and individual study.

7-45 CAMPAIGN FOR HUMAN DEVELOPMENT - DEADLINE January 31, 1980

Health System Change

Grants to poverty level organizations for health programs aimed at increasing community participation in decisions about the health system. Grants of \$10,000 - \$100,000 will be awarded.

- 7-46 DISTILLED SPIRITS COUNCIL OF THE UNITED STATES - DEADLINE February 1, 1980

Alcohol Research

Support into causes, nature, extent, treatment and prevention of the various problems related to excessive use or abuse of beverage alcohol. The program seeks to stimulate testing of promising ideas or hypotheses, on a pilot basis, in the biological, medical, and behavioral sciences.

- 7-47 NATIONAL INSTITUTE OF HEALTH - DEADLINE February 1, 1980

Minority Access to Research Careers Undergraduate Program

The Institutional National Research Service Awards for an undergraduate honors program in the Biomedical Sciences under the Minority Access to Research Careers Program will support undergraduate research training program to: (1) increase the number of well-prepared minority students for entry into graduate programs leading to the Ph.D. degree; (2) aid the development of a strong biomedical sciences curriculum; and (3) strengthen research training programs in the biomedical sciences.

- 7-48 NATIONAL EYE INSTITUTE - DEADLINE February 1, 1980

Eye Academic Investigator

The National Eye Institute will support Research Career Development awards for junior faculty researchers. However, applicants must have already received a research grant from the National Eye Institute.

- 7-49 NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM, AND DIGESTIVE DISEASES - DEADLINE February 1, 1980

Clinical Investigator Awards

Support is available for promising young medical investigators in the fields of digestive diseases and nutrition, and who have demonstrated aptitude in research, to develop into independent investigators.

- 7-50 NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM, AND DIGESTIVE DISEASES, NATIONAL HEART, LUNG, AND BLOOD INSTITUTE, NATIONAL INSTITUTE ON AGING, NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES, NATIONAL INSTITUTE OF CHILD HEALTH AND HUMAN DEVELOPMENT, NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE

Studies on Overnutrition and Obesity

The emphasis of this program is basic, clinical, and behavioral research aspects of exogenous obesity.

- 7-51 NATIONAL INSTITUTE ON AGING - DEADLINE February 1, 1980

Clinical Investigator Awards

Research in Geriatric Medicine; Organic Brain Diseases of Old Age; Clinical Nutrition and Aging; Endocrinology and Aging; Maturity Onset Diabetes and Aging; Dermatology and Aging; Epidemiology and Aging.

- 7-52 NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES - DEADLINE February 1, 1980

Environmental Toxicology

The Mid-Career Development Award in Environmental Toxicology replaces the NIEHS Academic Investigator Award - Toxicology. The title change was made to better describe the objective of the program, which is to facilitate the movement of individuals with research expertise in biomedical sciences into careers in environmental toxicology.

- 7-53 NATIONAL CENTER FOR HEALTH SERVICES RESEARCH - DEADLINE February 1, 1980

Health Services Research

Support for studies of health services, organization, financing, and delivery. Priorities are: (1) quality of care, (2) inflation and productivity, (3) health care and the disadvantaged, (4) health manpower, (5) health insurance, (6) planning and regulation, and (7) emergency medical services.

- 7-54 NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES - DEADLINE February 1, 1980

Burn and Trauma Research and Research Training

The NIGMS invites applications for support of research and research training relating to basic studies of the underlying mechanisms of the body's systemic response to trauma and burns.

- 7-55 NATIONAL SCIENCE FOUNDATION - DEADLINE February 6, 1980

New Investigator Grants in Information Sciences

These special awards are intended to stimulate new research in the field of information science. They are offered only to principal investigators holding a doctoral degree in information science or a related field for no more than five years.

- 7-56 NATIONAL SCIENCE FOUNDATION - DEADLINE February 8, 1980

Analysis of Science Resources

The awards will be for in-depth analyses and integration of data on scientific and technical personnel; funding of scientific and technological activities and related studies; scientific and technological manpower forecasting efforts; and development of new measures of outputs of scientific and technological activity, especially of indicators of technological innovation.

- 7-57 HUMAN GROWTH FOUNDATION - DEADLINE February 8, 1980

Human Growth Career Starter Grants

This program will provide support for research by young investigators in the amount of \$30,000 over a two year period. Proposals must be concerned with clinical and basic research in statural growth disorders in children.

- 7-58 NATIONAL CENTER FOR HEALTH SERVICES RESEARCH - DEADLINE February 15, 1980

Dissertation Research in Health Care

The program will support innovative and timely research on significant issues in the area of health services. The National Center for Health Services Research announces that grant support is available for research projects undertaken in conjunction with the preparation of a dissertation.

- 7-59 HEALTH SERVICES ADMINISTRATION - DEADLINE February 15, 1980

Project Grants for Hospital-Affiliated Primary Care Centers

Potential applicants are community hospitals which are willing to organize their outpatient resources with the goal of providing comprehensive and continuous primary health and medical care to medically underserved populations through a HAPCC.

- 7-60 NATIONAL SCIENCE FOUNDATION and NATIONAL ENDOWMENT FOR THE HUMANITIES SCIENCE
DEADLINE February 15, 1980

Ethics and Values in Science and Technology

Interdisciplinary Incentive Awards are intended to permit scholars and practitioners in the mathematical, physical, biological, social, medical and engineering sciences and in the humanistic disciplines to pursue specific, problem-oriented activities in association with specialists in fields other than their own, in order to enhance their ability to deal with issues in the field of science and values.

Sustained Development Awards are intended to provide long-term support for individuals who have a substantial record of achievement in the field of science and values and who wish to pursue their activities in association with an appropriate institution or organization in order to develop a new base for sustained work in the field.

PLEASE USE THIS FORM FOR REQUESTING INFORMATION ON THE EXTRAMURAL
FUNDING OPPORTUNITIES: REFER TO THE NUMBER ON THE LEFT FOR EACH
LISTING.

RETURN TO: UNIVERSITY RESEARCH SERVICES, ROOM 222 ALLYN HALL, WSU 45435

NAME _____

DEPARTMENT _____ PHONE _____

PLEASE SEND INFORMATION ON THE FOLLOWING: _____

PLEASE FOLD HERE